

#15

SEQUENCE LISTING

<110> CHOO, YEN  
KLUG, AARON  
ISALAN, MARK

<120> NUCLEIC ACID BINDING PROTEINS

<130> 71278/264975

<140> 09/424,487

<141> 1999-11-23

<150> GB 9710809.6

<151> 1997-05-23

<150> PCT/GB98/01512

<151> 1998-05-26

<160> 114

<170> PatentIn Ver. 2.1

<210> 1

<211> 264

<212> DNA

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<221> CDS

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Ala Glu Glu Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser	
1 5 10 15	

gat cgt act act ctt acc cgc cac acg agg acc cac aca ggc gag aag	96
Asp Arg Thr Thr Leu Thr Arg His Thr Arg Thr His Thr Gly Glu Lys	
20 25 30	

cct ttt cag tgt cga atc tgc atg cgt aac ttc agc agg agc gat aac	144
Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asn	
35 40 45	

ctt acg aga cac cta agg acc cac aca ggc gag aag cct ttt cag tgt	192
Leu Thr Arg His Leu Arg Thr His Thr Gly Glu Lys Pro Phe Gln Cys	
50 55 60	

cga atc tgc atg cgt aac ttc agg caa gct gat cat ctt caa gag cac	240
Arg Ile Cys Met Arg Asn Phe Arg Gln Ala Asp His Leu Gln Glu His	
65 70 75 80	

cta aag acc cac aca ggc gag aag	264
Leu Lys Thr His Thr Gly Glu Lys	
85	



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<210> 2  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic amino acid

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 Ala Glu Glu Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser  
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 Asp Arg Thr Thr Leu Thr Arg His Thr Arg Thr His Thr Gly Glu Lys  
                     20                    25                    30  
 Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asn  
                     35                    40                    45  
 Leu Thr Arg His Leu Arg Thr His Thr Gly Glu Lys Pro Phe Gln Cys  
                     50                    55                    60  
 Arg Ile Cys Met Arg Asn Phe Arg Gln Ala Asp His Leu Gln Glu His  
                     65                    70                    75                    80  
 Leu Lys Thr His Thr Gly Glu Lys  
                                     85

<210> 3  
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<220>  
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<220>  
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 <222> (3)..(6)  
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 <222> (8)..(10)  
 <223> This region may encompass 2-3 residues consisting of any amino acid

<220>  
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<222> (18)..(19)

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<222> (21)..(23)

<223> Any amino acid

<400> 3

Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Leu Xaa Xaa His Xaa Xaa Xaa His  
20

<210> 4

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker

<400> 4

Thr Gly Glu Lys  
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<210> 5

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Linker

<400> 5

Thr Gly Glu Lys Pro  
1 5

<210> 6

<211> 26

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Consensus  
structure

<400> 6

Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp  
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly  
20 25

<210> 7

<211> 29

<212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Consensus structure

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 Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn  
           1                  5                  10                  15  
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                   20                  25

<210> 8  
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 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Leader peptide

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 Met Ala Glu Glu Lys Pro  
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<210> 9  
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<220>  
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<400> 9  
 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Arg Ser Ser Leu  
           1                  5                  10                  15  
 Thr Arg His Thr Arg Thr His Thr Gly Glu Lys Pro  
                   20                  25

<210> 10  
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 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Zinc finger peptide

<400> 10  
 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Arg Ser His Leu  
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 Thr Arg His Thr Arg Thr His Thr Gly Glu Lys Pro  
                   20                  25

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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 11  
Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Arg Ser Asn Leu  
1 5 10 15  
Thr Arg His Thr Arg Thr His Thr Gly Glu Lys  
20 25

<210> 12  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 12  
Met Ala Glu Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg  
1 5 10 15  
Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr  
20 25 30  
Gly Gln Lys Pro  
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<210> 13  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 13  
Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asp Leu  
1 5 10 15  
Thr His Ile Arg Thr His Thr Gly Glu Lys Pro  
20 25

<210> 14  
<211> 26  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 14  
Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Ser Asp Arg Lys Arg  
1 5 10 15

His Thr Lys Ile His Leu Arg Gln Lys Asp  
20 25

<210> 15  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 15  
Arg Leu Glu Tyr  
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<210> 16  
<211> 4  
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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 16  
Arg Ser Glu Asp  
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<210> 17  
<211> 4  
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<220>  
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<400> 17  
Arg His Thr His  
1

<210> 18  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 18  
Arg Ser Ser Glu  
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<210> 19  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 19  
Arg Ser Ser Ala  
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<210> 20  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 20  
Gln Val Thr Thr  
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<210> 21  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 21  
Gln Ser Gly Asp  
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<210> 22  
<211> 4  
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<400> 22  
Gln Leu Ala Thr  
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<210> 23  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 27  
Ser Ala Ser Ala  
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<210> 28  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
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<400> 28  
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<210> 29  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
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<400> 29  
Leu Val Gln Asn  
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<210> 30  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 30  
Thr Gly Ala Ser  
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<210> 31  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 31  
Thr Pro Ser Gly  
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<210> 32  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 32  
Thr Gln Thr Ala  
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<210> 33  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 33  
Thr Ser Ala Ala  
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<210> 34  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 34  
Asp Thr Ser Val  
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<210> 35  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 35  
Asp Ala Ser Thr  
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<210> 36  
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       peptide  
  
 <400> 36  
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       peptide  
  
 <400> 37  
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       1  
  
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       peptide  
  
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<223> Description of Artificial Sequence: Zinc finger  
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Arg Ser Thr Asp  
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<210> 41  
<211> 4  
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Ser Arg His Ser  
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<210> 42  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 42  
Arg Asn Ser Thr  
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<210> 43  
<211> 4  
<212> PRT  
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<220>  
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<400> 43  
Arg Thr Ser Thr  
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<210> 44  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
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<400> 44

Thr Arg Tyr Ser

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<210> 45

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
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<400> 45

Arg Ala Gln Asn

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<210> 46

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 46

Gln Ala Ala Thr

1

<210> 47

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 47

Gln Gly Thr Asn

1

<210> 48

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 48

Thr Ser Arg Asp

1

<210> 49

<211> 4  
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<223> Description of Artificial Sequence: Zinc finger  
peptide  
  
<400> 49  
Gln Arg Gly Ala  
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<210> 50  
<211> 4  
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Gln Ser Thr Thr  
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<210> 51  
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<223> Description of Artificial Sequence: Zinc finger  
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Thr Ser Ser Ser  
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<210> 52  
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<223> Description of Artificial Sequence: Zinc finger  
peptide  
  
<400> 52  
Ser Ser Ser Thr  
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<210> 53  
<211> 4  
<212> PRT  
<213> Artificial Sequence  
  
<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 53  
Thr Ile Ser Asn  
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<210> 54  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 54  
Thr Ser Thr Ala  
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<210> 55  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 55  
Thr Ser Ser Leu  
1

<210> 56  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 56  
Thr Ser Ser Ile  
1

<210> 57  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 57  
Thr Ser Asn Ser

1

<210> 58  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 58  
Gly Ser Asn Asp  
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<210> 59  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 59  
Thr Thr Ser Ser  
1

<210> 60  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 60  
Thr Ala Gly Ser  
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<210> 61  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 61  
Thr Thr Ser Ser  
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<210> 62  
<211> 4



<212> PRT  
 <213> Artificial Sequence  
  
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       peptide  
  
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 Thr Ser Ser Ala  
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 <210> 63  
 <211> 4  
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 <223> Description of Artificial Sequence: Zinc finger  
       peptide  
  
 <400> 63  
 Leu Ser Thr Thr  
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 <210> 64  
 <211> 4  
 <212> PRT  
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 <223> Description of Artificial Sequence: Zinc finger  
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 Leu Ser Ser Thr  
       1  
  
  
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 <212> PRT  
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       peptide  
  
 <400> 65  
 Asp Pro His Asn  
       1  
  
  
 <210> 66  
 <211> 4  
 <212> PRT  
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 <220>  
 <223> Description of Artificial Sequence: Zinc finger

peptide

<400> 66  
His Ser Lys Ser  
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<210> 67  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 67  
His Arg Gln Asn  
1

<210> 68  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 68  
Asp Arg Ala Asn  
1

<210> 69  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 69  
Asp Arg Ala Asn  
1

<210> 70  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 70  
Arg Ser Gln Asp  
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<210> 71  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 71  
Gln Val Gly His  
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<210> 72  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 72  
Gln Leu Ala Thr  
1

<210> 73  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 73  
Thr Ser Gln Ala  
1

<210> 74  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 74  
Thr Ser Ala Ser  
1

<210> 75  
<211> 4  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 75

Leu Ala Gln Thr

1

<210> 76

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 76

Arg Ser Arg Asp

1

<210> 77

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 77

Arg Leu Arg Asp

1

<210> 78

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 78

His Leu Ala Thr

1

<210> 79

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 79  
His Leu Thr Thr  
1

<210> 80  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 80  
Val Gly His His  
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<210> 81  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 81  
His Pro Ala Thr  
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<210> 82  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 82  
His Pro Ala Asn  
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<210> 83  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 83  
His His Ser Asn  
1

<210> 84  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 84  
Asp Ser Arg Ala  
1

<210> 85  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 85  
Lys Ser Ser Asp  
1

<210> 86  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 86  
Ser Ser Ser Asp  
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<210> 87  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 87  
Arg Ser His Asp  
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<210> 88  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 88  
Arg Ser Ser Tyr  
1

<210> 89  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 89  
Arg Ser Ser Ser  
1

<210> 90  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 90  
Arg Lys Thr Asp  
1

<210> 91  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 91  
Gln Ile Ser Thr  
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<210> 92  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 92  
Gln Ile Gly Ala  
1

<210> 93  
<211> 4  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 93  
Gln Tyr Ser Thr  
1

<210> 94  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 94  
Gln Ser Ala Ser  
1

<210> 95  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 95  
Gln Ser Gln His  
1

<210> 96  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 96  
Gln Thr Ser His  
1



<210> 97  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 97  
Gln Pro Gly His  
1

<210> 98  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 98  
Gln Asp Thr Thr  
1

<210> 99  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 99  
Gln Asp Ser Thr  
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<210> 100  
<211> 4  
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<220>  
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peptide

<400> 100  
Thr Ala Ser Thr  
1

<210> 101  
<211> 4  
<212> PRT  
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<220>  
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peptide

<400> 101  
Thr Ala Ser His  
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<210> 102  
<211> 4  
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<220>  
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peptide

<400> 102  
Thr Ser Ser Val  
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<210> 103  
<211> 4  
<212> PRT  
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<220>  
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peptide

<400> 103  
Thr Ser Ser Ala  
1

<210> 104  
<211> 4  
<212> PRT  
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<220>  
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peptide

<400> 104  
His His Thr Ser  
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<210> 105  
<211> 4  
<212> PRT  
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<220>  
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peptide

<400> 105

His Ala Gln Thr

1

<210> 106

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 106

His Ala Thr Thr

1

<210> 107

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 107

Asp His Ser Ser

1

<210> 108

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 108

His Pro Ser Thr

1

<210> 109

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 109

Asp Ser Ser Arg

1

<210> 110

<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 110  
gtggtgggcg ccggcgggtgt gggcaag

27

<210> 111  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 111  
gtggtgggcg ccgtcgggtgt gggcaag

27

<210> 112  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 112  
Met Ala Glu Glu Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe  
1 5 10 15

Ser Asp Arg Ser Ser Leu Thr Arg His Thr Arg Thr His Thr Gly Glu  
20 25 30

Lys Pro

<210> 113  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 113  
Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Arg Ser Ser Leu  
1 5 10 15

Thr Arg His Thr Arg Thr His Thr Gly Glu Lys Pro  
20 25

<210> 114

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 114

Phe	Gln	Cys	Arg	Ile	Cys	Met	Arg	Asn	Phe	Ser	Asp	Arg	Ser	Ser	Leu
1				5					10					15	

Thr	Arg	His	Thr	Arg	Thr	His	Thr	Gly	Glu	Lys
			20					25		